## SARA Title III Section 313 Inspection Log Sheet

Report #:	00-3134-014
Facility:	NILE SPECIALTY BEARINGS
Location:	2060 DETWILER ROAD
	Kulpsville, PA 19443-0307
Date of Inspection:	DECEMBER 13, 1999
Date Inspection Report Completed:	DECEMBER 13, 1999
Preliminary Compliance Determination:	No evidence of violations (CGY 12/16/95)
Date Referred To RC For Review/Concurrence:	
Date Administrative Complaint signed:	
Date NCN Issued:	
Date Withdrawn:	
Date Of Close-Out:	12/16/99
Comments: OPEN AND	COOPERATIUR.
	·

## SARA TITLE III SECTION 313 INSPECTION REPORT **GD**-313U- 014

## **Facility**

NICE SPECIALTY BEARINGS 2060 DETWILER ROAD KULPSUILLE PA 19443 - 0367 SIC: 3562

## II. Date of Inspection

DECEMBER 13 1995

## III. EPA Inspector

Donald W. Stanton Technical Advisor Toxics Enforcement Branch (3WC33) (215) 814-2156

## IV. Company Officials

MICHAEL COLLINS, ENGINERRING MGR.

ROBERT W. CRAWFORD CORPORATE RISK MYR.

MICHAEL J. PFEITE'NDERGER PLANT MOR.

MEHASSIE MATERIALS' MGR.

Purpose of Inspection

Nice BALL BOARINGS INC. is a manufacturer of BALL AND ROHER blakings and has not submitted a form R under Section 313 of SARA Title III for the following reporting years: 1996, 1997, and 1998 This inspection was conducted to inspect, document, and verify the facility's compliance with the reporting requirements stated in 40 C.F.R. Part 372 under Section 313 of SARA Title III.

#### VI. Opening Conference

## Inspection Procedures and General Information

On Occambol 13 1999a Section 313 inspection was conducted at Nice Specialty Bearings . Approximately 26 days prior to the inspection a letter was sent to the company confirming the date of the inspection (attachment D). The EPA inspector met with company representatives at 1000 am. The inspector's credentials were presented and a Notice of Inspection was presented and explained. Mr. Collins signed the notice and an outline of the areas to be investigated was discussed.

## Facility Description

NICE SPECIAlty BEARINGS is privately owned.

is responsible for environmental matters. The plant is the only plant and serves as headquarters as well. The facility produces

Year	<b>⊭</b> Sales	<b>Employees</b>
1996	18 000,000	110
1997	416,000,000	110
1998	416000000	110

## SARA Title III

Section 313 was the primary focus of the inspection. The facility was phoned prior to the inspection to determine if an inspection was warranted (attachment E). In addition, compliance with Sections 302,311, and 312 was checked. A copy of the letter sent to the facility confirming the date of inspection (attachment D) was sent to the Superfund Removal Branch to allow them the option to further investigate compliance with Sections 302, 311, and 312 at their discretion.

A plant, factory, or other facility comes under the provisions of Section 313:

- 1. If it conducts manufacturing operations (that is if its primary Standard Industrial Classification Code (SIC) is from 2000 through 3999;
- 2. If, in addition, it has 10 or more full-time employees; and
- 3. If it manufactures (including imports) or processes more than 75,000 pounds of a listed toxic chemical during any calendar year 1987 or manufactures (including imports) or processes more than 50,000 lbs. during calendar year 1988, or manufactures (including imports) or processes more than 25,000 lbs. during calendar year 1989 or later, or otherwise uses more than 10,000 pounds of a listed toxic chemical during any calendar year.
- Mr. Lolling stated that the plant's primary SIC Code is 3562. The remainder of the inspection involved determining if the plant manufactured, processed, or otherwise used any one of the listed toxic chemicals in excess of the thresholds in calendar years 1996, 1997, and 1998.

Mr. Stated that the facility does not manufacture any chemicals at their plant and no chemicals are imported into the facility.

For the inspection, they had compiled summaries of usages of Section 313 chemicals as shown in attachment #1. Section 313

## chemicals are summarized as follows:

## Usage in Pounds

1996 169,161 24,320 1606 1997 106,246 23,305 1466 1998 119,273 21,500 1334	Year	METHANOI	CHROMINM	NICKEL
SOR housings of the ball bearing assembly and is absidived as otherwise used. Chromium and Nickell are contained in the housings and are considered as processed.	1997 1998	106,246	23,305	1466 1334 Case hardening atmosphere

## VIII. <u>Closing Conference</u>

Appropriate documents were requested by the EPA Inspector and the SARA Title III Section 313 investigation was concluded. Receipt for Samples and Documents was filled out at the end of all inspection activities.

## IX. Attachments

- A. Notice of Inspection
- B. Receipt for Samples and Documents
- C. FTTS Summary
- D. Letter to Facility Confirming Date of Inspection
- E. Initial telephone call record.
- 1. Summary of Section 313 chemicals used
- 2. MSDS Shee+s
- 3. Company Brochure

## X. Summary of Findings

Nice Specially Bearings did not submit Form Rs under Section 313 of SARA Title III for the following reporting years: 1996, 1997, 1998, for metals. The records showed that the facility had greater than 10 employees (110) and is a manufacturer (SIC Code 3562). In addition, the records showed that the facility did not exceed the threshold for any listed Section 313 chemical during a calendar year. Therefore, the facility is currently in compliance with SARA Title III Section 313.

It should be noted that methanol has been Copsistantly reported from 1987 through 1998. It should also be noted that the balls from the ball bearings are inserted as received from their supplier and No work is performed on them which explains why they did not exceed the threshold for metals. Also the vast maderity (over 9090) of the production are NOT manufactured from Stainless 5teel.

## ATTACHMENT A

US ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20480
Superfund Amendments and Reguthorization Act - Title III Form Approved OMB No. 2010-0007 Emergency Planning and Community Right-to-Know Act of 1986 NOTICE OF INSPECTION 2. TIME J. FIRM NAME 1. INVESTIGATION IDENTIFICATION OATE | INSPECTION NO. / 2 //3 /57 Λ-III-003 00 INSPECTOR NO. DAILY SEO. NO. NICE SPECIALTY BEAKINGS 10 am 4. INSPECTOR ADDRESS S. FIRM ADDRESS US EPA Region III 2060 DETWILER RD 1650 Arch Street - 3WC33 KULPSUILL PA 19443-0307

## REASON FOR INSPECTION

Philadelphia, PA 19103

This inspection is for the purpose of determining compliance with the Emergency Planning and Community Right-to-Know Act of 1986, Section 313, Toxic Chemical Release reporting requirements. The scope of this inspection may include but is not limited to: reviewing and obtaining copies of documents and records; interviews and taking of statements; review of manufacturing, importing, processing, use, and/or waste treatment facilities; taking samples and photographs, and other inspection activities necessary to determine compliance with the Act.

INEFECTOR SIGNATURE	MECIPIENT EIGNATURE  MECIPIENT
Donald W. Stanton	MICHAEL COLLINS
Inspector/Technical Advisor 12/3/95	ENGINO ORING MAR. 12/3/99

S ENVIRONMENTAL PROTECTION AGENCY Superfund Amendments and Reauthorization Ac Title III
Emergency Planning and Community Right-to-Know Act of 1986

Form Approved. OMB No. 2070-0007

RECEIPT FOR SAMPLES AND DOCUMENTS

1. INVESTIGATION IDENTIFICATION DATE 12/13/99

INSPECTOR NO. A-111-003 DAILY SEQ. NO.

NICE SPECIALLY BEARINGS

3. INSPECTOR ADDRESS

US EPA Region III 1650 Arch Street - 3WC33 Philadelphia, PA 19103

4. FIRM ADDRESS

2. FIRM NAME

2060 DETWILER RD. Kulpsville PA 19443-0307

The documents and samples of chemical substances and/or mixtures described below were collected in connection with the administration and enforcement of the Emergency Planning and Community Right-to-Know Act of 1986.

RECEIPT OF THE DOCUMENT(S) AND/OR SAMPLE(S) DESCRIBED IS HEREBY ACKNOWLEDGED:

NO.	DESC	RIPTION		
/_	USATO DATA			
* <b>2</b> .	Company Brown	* area /	* * *	•
•	Company Brockery			

Chemical identities for underlined items have been claimed as trade secret. The facility official requesting such treatment has read and understands EPCRA Section 322 and pertinent trade secret regulations and understands EPCRA Section 325 which provides for (among other

<u>things) penalties for frivolous claims.</u>	
INSPECTOR SIGNATURE	RECIPIENT SIGNATURE
and an Alut	MICHAEL COLLIES
NAME	NAME XICHAN COCIONI 12-17-99
Donald W.Stanton	× Walnut Collani
TIDE DATE SIGNED	Eminery man. 12/13/95

Return Form To: \_Donald Stanton\_

## FTTS DATA ENTRY FORM

## **INSPECTION**

CA:	SE_	KE	۲ <u>Y</u> ,	E YY	

Inspection Date 12/13/99	Inspection Date: / /	
Inspector Number 83003	Inspector Number:	
Inspection Seq. 01		
Legislation Ind. E Investigation Type EEA	Inspection Seq.:	Samples Number:
Inspection Status	D 1 (M 1	C N 1
Region/State_03		Case Number:
Inspector Name_Donald Stanton		Linked Case 1:
Reason for Inspection_NSR_ Referral		Linked Case 2:
File Number 00-313U-014		Linked Case 3:
Date Rpt. Rec. 12/13/99 Warrant Required No	Linked Docket 4:	Linked Case 4:
Number of Samples0_	Site Name:	
CDI. v. v. V. Number School	File Number:	
CBI: ynX_ Number School	Referral Type: Legislation Ind: Case Review Officer:	Region/State:
School Type	Legislation Ind:	CBI: yn
Facility Function MN_	Case Review Officer:	
EPA Established	Date Review Started:	/ /
Number of Audits	Date Review Completed:	
Prod. Reg. #	Action Warranted:	
REMARKS:	Investigation Type:	
	REMARKS:	
Site Name: Nice Specialty Bearings	ACTTYPE:	The second secon
Address: 2060 Detwiler Road	CASE DEVELP:	
City: Kulpsville State: PA	CASE NUM:	
Zip Code:19443-0307	DOCKET NUM:	
•	DATE ORC:	
Site Duns No.:	DATE ISSUE:	
Site SIC Codes No.: 3562	SAN	MPLES
Parent Co. Name: RBC Systems Inc.	Year and an Dada	
Parent Co. City: _Woodbridge	Inspection Date /	
State: CT Zip Code: 06525	Inspector Number:	
•	Inspection Sequence:	
Identifier :	Sample Number:	
Rep Comp :		
Field_Cit :		
Longitude :		
Latitude :		
	Prod Reg #:	
	Date Sample Sent:	
	Date Results Received:	
	Violative:	
	REMARKS:	



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III

## 1650 Arch Street PHILADELPHIA, PENNSYLVANIA 19103-2029

November 17, 1999

Mr. Michael Collins, Engineering Mgr. Nice Specialty Bearings 2060 Detwiler Road Kulpsville, PA 19443-0307

RE: Superfund Amendments and Reauthorization Act (SARA) Title III Section 313 Inspection

Dear Mr. Collins:

This is to confirm that Mr. Donald W. Stanton will visit your facility on December 13, 1999 at 10 am to conduct a SARA Title III inspection. Mr. Stanton is a member of the National Council of Senior Citizens designated by the EPA Administrator to conduct inspections under Title III. To save time during the inspection, please have available for review and collection by the inspector the following documents for 1996,1997, and 1998 calendar years:

- A list of all EPCRA Section 313 chemicals used for each year specified above;
- Annual usage summaries (pounds) of each EPCRA Section 313 chemical with supporting documentation for each year indicated above (supporting documentation should include such items as beginning and end of year inventory, purchase records, and if applicable, import records);
- Chemical production records for all Section 313 chemicals or chemical categories manufactured, processed, or otherwise used at your facility.
- Note: If your facility manufactures, processes, or otherwise uses mixtures which contain Section 313 chemicals, please provide for each of these mixtures a copy of the Material Safety Data Sheet (MSDS), or other written notification which specifies the chemical composition of the mixture.

In addition to the above items, please notify him of any safety equipment (e.g. eye or ear protection, safety shoes, hard hat, etc.) he should bring with him to the inspection. If time permits, he will tour your plant. Should you have any questions, please call Mr. Stanton at (215) 814-2156.

Sincerely,

Craig E. Yussen
EPCRA Section 313 Compliance Coordinator

cc: Section 313 State Contact Carole A. Dougherty (3HS33)

Mor	160 m	nery	<u>ATTACHMENT E</u>	
			EPA REGION III	5005
M	aki _	lount	INITIAL TELEPHONE CALL RECORD	FULL PACKA "10195.
16	- R1	ld light	مدوا	# 12dvie 0 141
Les	- 4 1 ast	at Next	- Red Nice Boll Bearing	
4		ty Name:	NICE SPECIALTY BRARING	s Date of Call: " 10 199
0 %	L.H	بدلج رک	DIU RBC SYS+OMS.	
PAST	Facili	ty Address:	2060 DR+WILL RD.	_
			Kalpsville, PA 19443	5-0307
	Facili	ty Contact:	MICHARL 6/11/25 ENG 215-256-6681 - (EX	 -120111,24 Man. - < < 5 9
	Phone	Number:	800-321-6423	1. 3.3.1)
	Inspec	ctor Making:	SIANTON	-
	Call:			
			<u>QUESTIONS</u>	
	1)	Are you familia	ir with SARA Title III?	Yes No
		(If yes, move to	question 2. If no, give brief explanation.)	
	2)	Are you familia	ar with Section 313 of SARA Title III?	Yes No
		(If yes, move to	question 3. If no, give brief explanation.)	Yes <u>~</u> No
	3)	Did you report	under Section 313 for the 199 Syear?	67 { Yes <u>~</u> No
	4)	Did you report	under Section 313 for the 1997 reporting year?	Yes _ No _
	5)	Did you report	under Section 313 for the 1998 reporting year?	Yes No
Dir Engineerii ◆EMP: 120 E EST. SLS: \$1 Privately Ow SIC: 3562 35 HQ: R B C Sy 21 Haze	rstems Inc r Rd (19443-0307) 2: 800 321-64 3-5507 gr: Phil Beau egan Hausier lor: Scott And David Boren 7: Anna Kott no: Chuck W EST: 1901 10MM-24,9M med 68 Ball & roll ystems Inc il Ter idge, CT 068	9999) 215 256-6681 (23	ASM Ratio Undan 25,000	

SIC Code:

6)

	7)	Nature of Busines distribution or sal		ny manufacturin	g or process at you	ır site or are you just a
		MA	NN FACTUAL	BALL	+ Rollen	Bearings
				•		
	8)	# of Employees:	199 <b>6</b> ; <u>(10</u> ;	1997: <u>110</u> ;	1998:116	10-25 mm.
	9)	Do you use any ch	emicals at your fac	ility?		Yes J No
	10)		ection 313 listed che cals:MQ:HA		MONA	Yes No
			CH Romi	um, wick	Les MA	ANGS C.
	11)	Did you determine	e if you were subject		`	Yes / No
	12)					oresent on your site at election of a facility Yes No/
	13)		report under § 311 (s fire department by 1			Ds chemicals to SERC, re exceeded?) Yes No
	14)	•••	eded to comply with propriate agencies f	•	facility submit the	required Tier 1 or Tier
		a) th	ne 1945 reporting ye	ar by 3/1/§7?		Yes No
		b) th	he 1997 reporting ye	ar by 3/1/98?		Yes / No
		c) th	he 1998reporting ye	ar by 3/1/99?		Yes No
	15)	Did phone call re	sult in an inspection	1?		Yes No
		If yes, date and ti	me <u>DEC13, 1</u>	999-10	am.	
0 Zm m	16)	Comments: _/	N PASS MA	de ruo	00,000 34	LL BOARing.
			DOW = 15		•	
140	00,00	· -	49, ig 52	100 (	140 C STA.A	lers mostly
1 子	. 15	15 2,100	378,000/	} 3 u.	•	
		1815 01	2180001	5 1 \ NOT	e cauliar	



# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III 1650 Arch Street Philadelphia, Pennsylvania 19103-2029

November 10, 1999

Mr. Michael Collins, Engineering Mgr. Nice Specialty Bearings 2060 Detwiler Road Kulpsville, PA 19443-0307

RE: Superfund Amendments and Reauthorization Act (SARA) Title III Section 313 Inspection

Dear Mr. Collins:

This will confirm that Mr. Donald W. Stanton of my staff will advise you when he will visit your facility to conduct a SARA Title III inspection. Mr. Stanton is a member of the National Council of Senior Citizens designated by the EPA Administrator to conduct inspections under Title III.

To save time during the inspection, please have available for review and collection by the inspector the following documents for 1996, 1997, and 1998 calendar years:

- A list of all EPCRA Section 313 chemicals used for each year specified above;
- Annual usage summaries (pounds) of each EPCRA Section 313 chemical with supporting documentation for each year indicated above (supporting documentation should include such items as beginning and end of year inventory, purchase records, and if applicable, import records);
- Chemical production records for all Section 313 chemicals or chemical categories manufactured, processed, or otherwise used at your facility.
- Note: If your facility manufactures, processes, or otherwise uses mixtures which contain Section 313 chemicals, please provide for each of these mixtures a copy of the Material Safety Data Sheet (MSDS), or other written notification which specifies the chemical composition of the mixture.

In addition to the above items, please notify him of any safety equipment (e.g. eye or ear protection, safety shoes, hard hat, etc.) he should bring with him to the inspection. If time permits, he will tour your plant. Should you have any questions, please call Mr. Stanton at (215) 814-2156.

Sincerely.

Craig E. Yussen

**EPCRA Section 313 Compliance Coordinator** 

EPA Region III

cc: Section 313 State Contact Carole Dougherty (3HS33) 12-13-58

MIKE COLLINS

12/08/1999 ATTACHMENT #1

	STEEL (	CONSUMPTION				
1998	STEEL	LBS.	CR	LBS. CR	NI	LBS. NI
	440C SS	84000	18% MAX	15120	.0054% MAX	453.6
	52100	440000	1.45% MAX	6380	.002% MAX	880
	LOW CARBON	189000	0	0	0	
	TOTAL LBS	713000		21500		(1333.6
1997 )	STEEL	LBS.	CR	LBS. CR	Ni	LBS. NI
	440C SS	90000	18% MAX	16200	.0054% MAX	486
	52100	490000	1.45% MAX	7105	.002% MAX	980
	LOW CARBON TOTAL LBS	208000 788000	0	23305	0	(1466
1996	STEEL	LBS.	CR	LBS. CR	NI	LBS. NI
	440C SS	90000	18% MAX	16200	.0054% MAX	486
	52100	560000	1.45% MAX	8120	.002% MAX	1120
LOW CA	RBON	240000	0	0	0	
	TOTAL LBS	890000		( 24320		( 1606



## **INTER-OFFICE LETTER**

DATE:

December 1, 1999

TO:

M. Collins

CC:

R. Anglada

R. McClincey

S. Mease

FROM:

P. Mehaffie

SUBJECT:

ESTIMATED ANNUAL STEEL USEAGE

Estimated annual consumption of steel is as follows:

<u>1998</u>

<u>1996</u>

440C Stainless

84,000 lbs.

90,000 lbs

90,000 lbs.

52100

440,000 lbs.

490,000 lbs.

560,000 lbs.

Low Carbon

189,000 lbs.

208,000 lbs.

240,000 lbs.

 $\frac{C}{1472}$   $\frac{C}{.026}$   $\frac{R}{.097}$   $\frac{1473}{.078}$   $\frac{C}{.210}$ 

208K 217K 5408 20176 14926

88080

- 2 17-99

METHANOL USAGE

6.616 #/ / GAL

	0.010	#I I OAL	
1997 DATE	WGT/GALS		
01/14/1997	2068		
03/27/1997	1999		
05/07/1997	1988		
06/13/1997	2001		
08/05/1997	2006		
09/10/1997	1997		
10/17/1997			
11/24/1997			
TOTAL		246.3	
	(LBS.		
1998 01/16/1998			
02/24/1998			
03/27/1998			
05/11/1998			
06/17/1998			
08/06/1998			
09/18/1998			
10/19/1998			
11/18/1998		770.0	
TOTAL	18028/ 1192 (LBS.	273.2	
	LBS.		
1996 =	165161	13	
1716	1	7 13	-13-89
This is		<b>- ★</b> ∧ ()'	, , ,
12,2	MPROX -	- Sylce, an Line	
		1	



## **CERTIFICATE OF TEST**

CANTON, OHIO 44706



DECEMBER 07, 1999

OLD TO: NICE BALL BEARINGS INC.

2060 DETWILER ROAD

KULPSVILLE

PA 19443

USA

SHIP TO: NICE BALL BEARINGS INC

2060 DETWILER ROAD

KULPSVILLE

PA 19443

USA

DESCRIPTION ELECTRIC FURNACE "DEGASSED" 52100 BEARING, AIRCRAFT QUALITY

OF MATERIAL: SPHEROIDIZE ANNEALED - ROTOROLLED SPEC: AMS-2301H, SKF

N471563AF-Y REV. AF OF 1989/05/17

TUBE NO. 903

TIMKEN ORDER 82664 RELEASE A CUSTOMER ORDER 5507325

SIZE OD .903" WALL .125" ID

.653"

CHEMICAL ANALYSIS PIECE CV SI NO. HEAT J3130 LADLE 1.00 .35 .014 .014 .27 1.43 .11 .04

> PIECE CV NO. NO.

HEAT

J3130 LADLE .031 .002 .0007

GRAIN

HEAT

SIZE

J3130 LADLE

ROCKWELL C HARDNESS

PIECE

HEAT J3130 NO.

RANGE

29.0/ 30.0

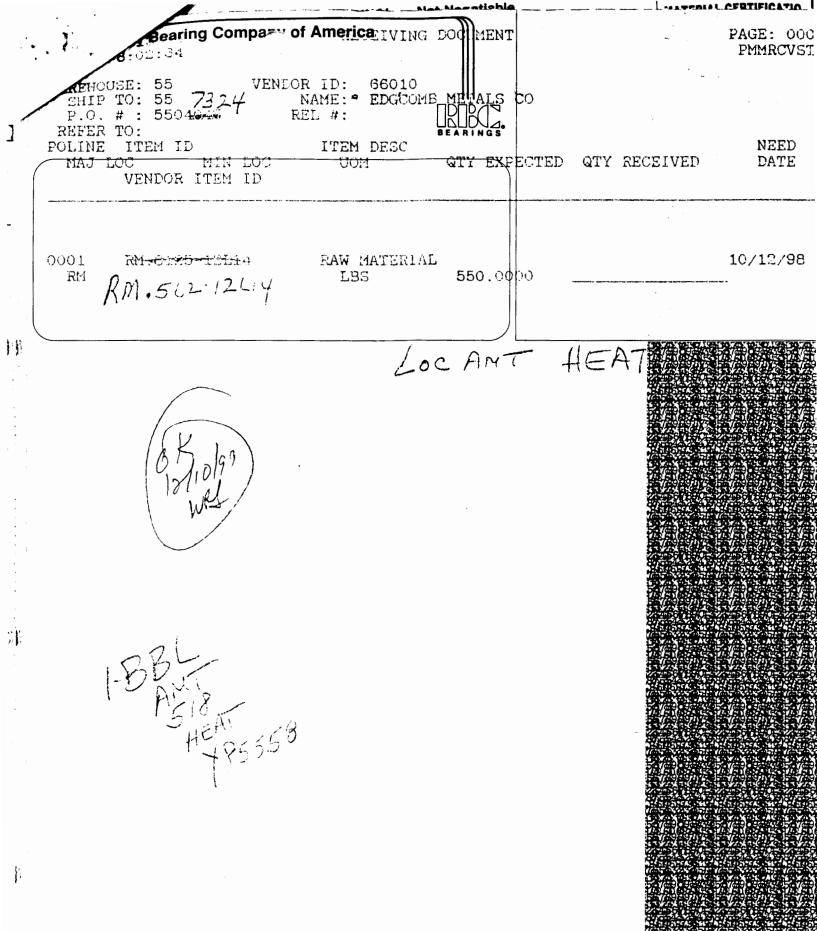
WHEN SHIPPING NOTICE IS ATTACHED IT BECOMES PART OF THIS CERTIFICATION

WE CERTIFY THE ABOVE MATERIALS HAVE BEEN INSPECTED AND TESTED IN ACCORDANCE WITH THE METHODS PRESCRIBED IN THE GOVERNING SPECIFICATIONS, AND THE RESULTS OF SUCH INSPECTIONS AND TESTS CONFORM WITH THE APPLICABLE REQUIREMENTS.

APPROVED BY: JEPSON

NOTARY PUBLIC

Supervisor-Met. Order Processing



# PACKING SLIP

Acceptance of this order is to be bound by the terms and conditions on the reverse side.

THIS IS NOT A PURCHASE ORDER OR RELEASE UNLESS SIGNED BY AUTHORIZED AGENT.

ACKNOWLEDGE IMMEDIATELY.



daron Drawn Steel Corporation BILL OF LADING NO: 49827 FOB Page Ship Date Carrier Name JUNE R R EXPRESS 01 TOLEDO. OH. 15. 1999 Carrier Number Consigned EDGCOMB METALS CO. Delivery 420 MEMORY LANE Address County Destination 17402 DELIVERED/PREPAI YORK PA Shipping Instructions --> PLEASE CALL FOR A DELIVERY APPOINTMENT RECHRS 7AM-12PM PHONE: (717)755-1923INVOICÉ MUST BE BULKHEADED / TARP TO PROTECT FROM WEATHER NO. Written By Message CERT & B/L COMBINED QUESTIONS-PLEASE CALL BARON S.O. C/H 12L14 12-00 2-29879 3.68 29879 C/D 0-256000 RD Y85557 3,75 7.37 COLD FINISHED TOTAL CUST PO:EYK-11436 3.9 12-00 7-32266 N8544H 33547 C/D 2-3/4 RD 12L14 з.∳: TOTAL CUST PO:EYK-12504 COLD FINISHED 3.98 33552 C/D 0-5/16 RD 12L14 12-00 2-30372 Y86172 3.98 CUST PO:EYK-12499 COLD FINISHED TOTAL y85558 37 3.93 RD 12L14 1-33125 3356 3.94 COLD FINISHED TOTAL CUST 1 12-00 3.98 33600 C/D 1-1/2 HX 12L14 7-31937 Y86145 CUST PO:EYK-12532 COLD FINISHED 3.98 TOTAL # BNDLS TOTAL PAGE 27.12 2-29879 MN ъ S PB .0900 1.0400 Y85557 . 0600 . 3300 .15/.35 MN P S PB 7-32266 .3100 N8544H .0700 1.0700 . 0470 .15/.35 S 2-30372 MN PB .3200 .15/.35 Y86172 .0900 1.0800 .0570 s "`` PB Ρ 1-33125 MN .15/.35 .0630 .3300 Y65558 .0900 1.0600 Baron Drawn Steel does not intentionally add or purchase steel bar products or other materials that are contaminated n two ports by a carner by water, the law rec TOTAL that the bill state whether it is carrier's or shipper's weight NOTE—Where the rate is dependent on value, shippers are required B/L The agreed or declared value or time property specifically stated by the shipper to be not excu We certify that the above information is correct as contained in the records of Baron Drawn Steel Corporation Shipper, Per Agent BARON DRAWN STEEL CORPORATION METALLURGICA

1420 BARON STEEL AVENUE, TOLEDO, OH 43607

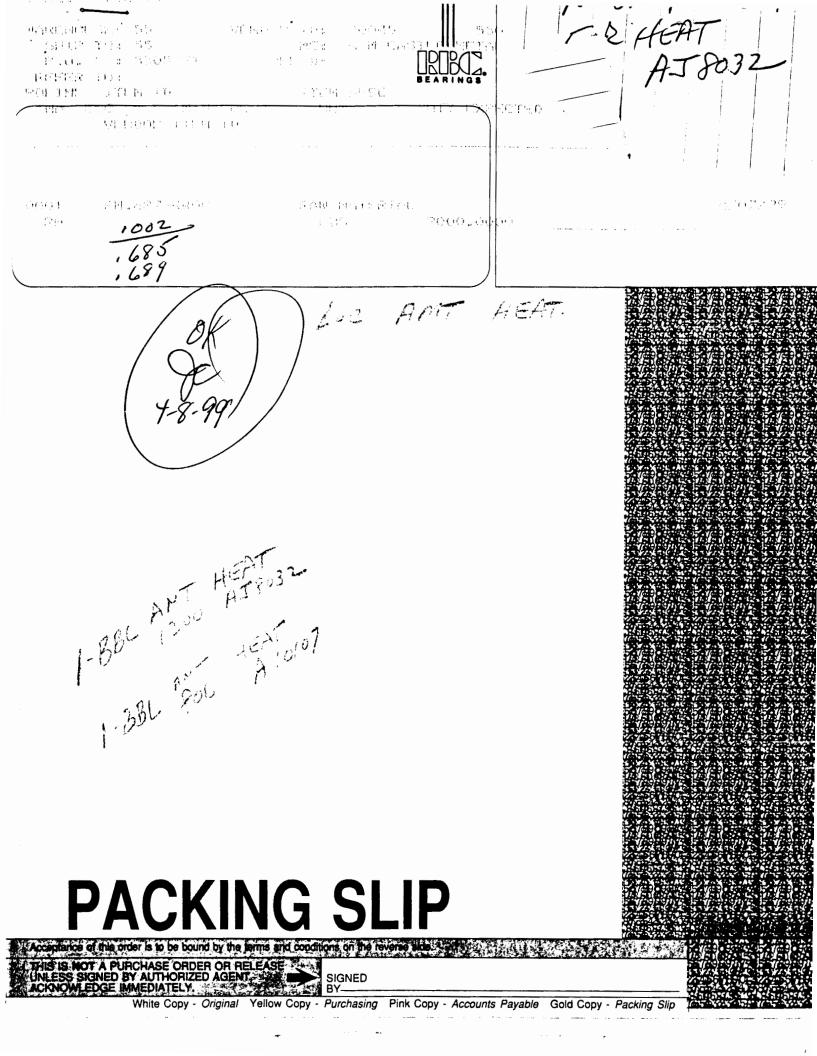
ADING — SHORT FORM ORIGINAL — Not Negotiable

classification and tariffs in effect on the date of the issue of this Bill of Lading,

MATERIAL CERTIFICATI

MANAGER

TITLE





## **AL Tech Specialty Steel Corporation** 90 Willowbrook Avenue, Dunkirk, N.Y. 14048

PAGE NO. 1 OF 1

CERTIFICATE

	DIDCH	SE ORDER NO. A	ND DATE	MILL ORDER NUMBER	DATE SHIPPED	EST INVOICE NO
ACCEPTING MILL DUNK I RK		AC6722	08/05/97	6-0-47730-01-001	/ /	
A M CASTLE - VENDOR #144 L ATTN: B. FREDERICKSON 3400 WOLF ROAD T FRANKLIN PARK IL 60131	:		S H I P	A.M.CASTLE 3400 WOLF RD FRANKLIN PARK IL 60131 TAG FOR FRANKLIN PARK		TR

ACG TO AMS-5630G QQS-763F AISI 440 UNS# \$44004

COND A WVE CLM (3440-02-15)

ITEM	D	ESCRIPT	0 N	QUANTITY	POUNDS	
01 R	.6875			ン	4583	
CHENICAL ANALYS	IS: ./		ELEMENTS PER	ENTAGES		
BEAT NO.	C · V HH V	P - S -	SI CR W/	KO CU	CO	
AJ8032	1.04 .52	.022 .002	.46 16.70 .34 .	.47 .11	.028	
TEST #	C1719					

MECHANICAL PROPERTIES:

EBAT NO. **ÅJ8032** 

UARDHESS GRAIN SIZE BHN 229/235 9 HARDENABILITY RC 58.5

CASTLE MEDIATE REC'D FROM

JK RATING PER ASTN E-45 0.0 B THIN O.O 1.0 BEAVY O.O 0.0 0.0 0.0

NATERIAL FREE FROM MERCURY CONTAMINATION

AICRO TEST: O.K. MACRO ETCH TEST: O.K.

DECARB FREE \*NOTE: KNOWINGLY AND WILLPULLY FALSIPPING OR CONCEALING A NATERIAL FACT ON THIS FORM OR MAKING FALSE OR FICTITIOUS OR FRAUDULENT ENTRIES OH THIS FORM COULD CONSTITUTE A FELONY PUNISHABLE UNDER FEDERAL STATUTES." "AL TECH DOES NOT PERMIT OR EMPLOY INGOT, BILLET OR BAR REPAIR OR CONDITIONING BY METAL BUILD UP, SUCE AS WELDING."

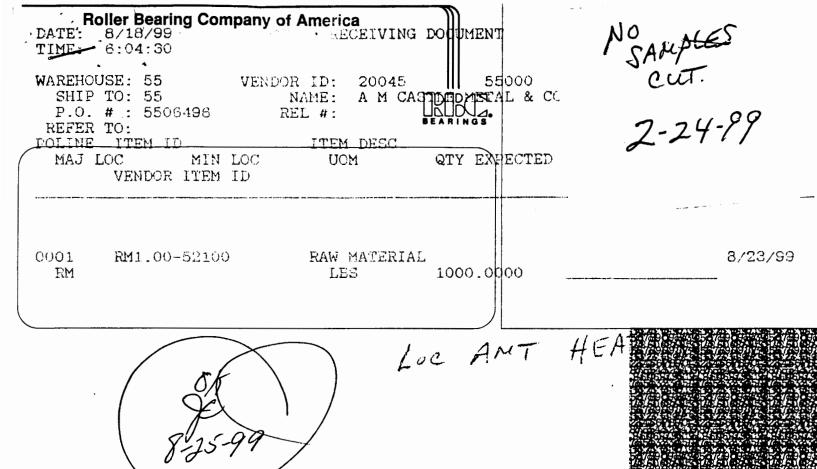
NAFTA CERTIFIED NORTH AMERICAN DOMESTIC

: '

11

### TEST CERTIFIER

THE TEST RESULTS SHOWN ABOVE ARE CERTIFIED TO BE A CORRECT STATEMENT OF RECORDS THAT WERE DERIVED FROM TESTING SAMPLES OF THE MATERIAL





# PACKING SLIP

Acceptables of this problem to be bound by the terms and bonditions on the reverse able. There

THIS IS NOT A PURCHASE ORDER OR RELEASE UNLESS SIGNED BY AUTHORIZED AGENT.

SIGNED



## TEST REPORT

PAGE: 0 f 1 4000 MAHONING AVE. N.W. WARREN, OHIO 44483-1968	NO.
CUSTOMER PURCHASE ORDER NUMBER & DESCRIPTION	ORIG. T.R. DATE REV. T.R. DATE SALES ORD
9-14667	12/02/1998 61750
SOLD TOTY-ALLOY STEELS CO. 5100 WEST 73RD STREET CHICAGO IL 60638  DESCRIPTION OF	SHIP TOA. M. CASTLE & CO. 299 CANAL ROAD FAIRLESS HILLS PA 19030
DESCRIPTION OF	MATERIAL ORDERED
FEET: PIECES WEIGHT SIZE 12,000 1	SHAPE: LENGTH: LENGTH:
PRODUCT DESCRIPTION: PH-ANN TURN POL OIL BQ  PART NUMBER: IAC-11758  GRADE: E52100 DH BQ	CSCO10101 AMS 6440K EX MK C52986-85 REV 1 6-23-97 ASTM A331-95 ASTM A892-88 (95) CS3 CN2 LC1 MAX ASTM A29-93A ASTM A295-94 UNSOC52986
Weat No CMn P SSiNi 80622 .99 .37 .011 .012 .23 .11 1	
aterial Stamped with Heat Code: LS	Hardness HB DECARB: NIL SURFACE 187
icro test satisfactory.	J-K Cleanliness Pating
acroetch equal to or better than 2, R1, C2, in accordance with STM E381-94.  lice hardenability RC: 65/65  country of origin USA - qualifies AFTA harmonized tariff classifiation 7228.30 (hot rolled) and 228.50 (cold finished) preference riterion B.	J-K Cleanliness RatingABCD  Ingot T H T H T H T H  1 T 1.5 1.5 0.5 1.0 0.0 0.0 0.5 0.5  1 B 1.5 1.5 0.0 0.0 0.0 0.0 0.5 0.5  9 T 2.0 1.5 0.0 0.0 0.0 0.0 0.5 0.5  9 B 1.5 1.5 0.0 0.0 0.0 0.0 0.5 0.5  16 T 1.5 1.5 1.0 0.5 0.0 0.0 0.0 0.5  16 B 2.0 1.5 0.5 0.0 0.0 0.0 0.0 0.0
CASTLE METALS - PHL DATE REC'D: 1-21-99 REC'D FROM: CSC APPROVED BY: 9C RD#: 34630 1AC: //758  CSC MATERIAL IS NOT SUBJECTED TO MERCURY DURING PROCESSING OR TESTING. NO WELDING PERFORMED ON MATERIAL MATERIAL PRODUCED AND CERTIFIED TO SPECIFICATIONS SHOWN ABOVE. NO ADDITIONAL CERTIFICATION IS IMPLIED OR WARRANTED.	We hereby certify that the above data are correct as contained in the records of CSC.  **Laryll D. Kifer  **
MATERIAL PRODUCED AND CERTIFIED TO SPECIFICATIONS SHOWN ABOVE, NO ADDITIONAL CERTIFICATION IS IMPLIED OR WARRANTED.	Veryl D. Kifer, Laboratory Services Superintendent

-ref -- 13-99 Doliveris 3) AZ. ANHY Ammorea 1960 0 3/25/ 2000 - 10/14/9 10 000 \$ USAS-E.

## Material Safety Data Sheet



Chemical Group

Hoechst Celanese Corporation

\*PO. Box 819005 / Dallas, Texas 75381-9005

\*Information phone: 214 277 4000

Emergency phone: 800 424 9300 (CHEMTREC)

Issued December 31, 1992

## Distributed By R. W. EAKEN, INC.

F. G. BOX 171, LEESPORT, PA. 19532 215 - 926 - 2136

Methanol

## Identification

Product name: Methanol Chemical name: Methanol Chemical family: Alcohol

Formula: CH<sub>2</sub>OH Molecular weight: 32 CAS number: 67-56-1 CAS name: Methanol

Synonyms: Methyl alcohol; carbinol; monohydroxymethane; methyl

hydroxide.

\* Transportation information Shipping name: Methanol Hazard class: 3, Flammable Liquid

United Nations no.: UN1230

Packing group: ||

Emergency Response Guide no.: 28 DOT Reportable Quantity: 5000 lb/2270 kg

## Physical data

Boiling point (760 mm Hg): 64.6°C (148°F) Freezing point: -97.8°C (-144°F) Specific gravity ( $H_2O = 1 @ 20/20^{\circ}C$ ): 0.7925

Vapor pressure (20°C): 96.0 mm Hg Vapor density (Air = 1 @ 20°C): 1.11 Solubility in water (% by WT @ 20°C): Complete

Percent volatiles by volume: 100 Evaporation rate (BuAc = 1): 2.0

Appearance and odor: Clear, colorless, mobile liquid with mild alcohol odor.

## Fire and explosion hazard data

Flammable limits in air, % by volume

Upper: Lower: 36.5 5.5

Flash point (test method):

Tag open cup (ASTM D1310): 60°F (15°C) Tag closed cup (ASTM D56): 54°F (12°C)

Extinguishing media:

Use CO<sub>2</sub> or dry chemical for small fires, alcohol-type aqueous film-forming foam or water spray for large fires. Water may be ineffective but should be used to cool fire-exposed structures and vessels.

## Special fire-fighting procedures:

\* If potential for exposure to vapors or products of combustion exists,

## Component information (See Glossary at and of MSCS for definitions)

		Exposure levels		Subject to
Component, wt. % (CAS number)	OSHA PEL TWA: STEL	ACGIH TLV * TWA: STEL	IDLH	SARA §313 reporting?
- Methanol (39 5-99 85% 87-56-1)	200 opm 250 opm (skin)	200 apm: 250 apm (skin)	25 300 ppm	<sup>/</sup> 95

wear complete personal protective equipment, including self-contained preathing apparatus with full facepiece operated in pressure-demand or other positive-pressure mode.

Water spray can be used to reduce intensity of flames and to dilute spills

to nonflammable mixture.

Unusual fire and explosion hazards:

Vapor is heavier than air and can travel considerable distance to a source of ignition and flashback. Material can burn with little or no visible flame.

Special hazard designations

	HMIS	NFPA	Key
Health:	3	1	0 ≠ Minimal
Flammability:	3	3	1 = Slight
Reactivity:	\ 0	0	2 = Moderate
Personal protective	į.		3 = Serious
equipment:	` \ <b>G</b> /	_	4 = Severe

#### SARA §311 hazard categories

Yes
Yes
Yes
No
No

## Reactivity data

Stability:

Stable

Hazardous polymerization:

Will not occur.

Conditions to avoid:

Heat, sparks, flame.

Materials to avoid:

Sulfuric acid; oxidizing agents such as hydrogen peroxide, nitric acid, perchloric acid and chromium trioxide.

Hazardous combustion or decomposition products:

Carbon monoxide.

## Health data

Effects of exposure/toxicity data

Ingestion (swallowing): Poisonous or fatal if swallowed. A small amount (usually two or more ounces) can cause mental sluggishness, nausea and vomiting leading to severe illness, and may produce adverse effects on vision with possible blindness or death (in humans) if treatment is not received. Practically non-toxic to rats (oral LD<sub>50</sub>: 7.5 g/kg). Inhalation (breathing): Extremely high levels cause stupor, headache, nausea, dizziness, unconsciousness and may produce adverse effects on vision. Practically non-toxic in rats (inhalation LC<sub>50</sub>, 4 hrs: 64,000 ppm). Repeat exposure of monkeys to 5000 ppm 6 hr/ day, 5 days/wk for 4 weeks caused no toxic response or effects on vision. Skin contact: Repeated or prolonged contact causes drying, brittleness, cracking and irritation. Prolonged and . repeated skin contact with methanolsoaked material has produced toxic effects including vision effects and death. Low toxicity to animals by skin contact (minimum lethal dose, monkeys: 1.6 a/ka).

Eye contact: May cause eye injury which may persist for several days. Liquid. and vapor in high concentrations. causes irritation, tearing and burning sensation.

(continued)

<sup>\*</sup> New or revised information; previous version dated December 31, 1990.

1 54.

= page 2

#### Chronic

Mutagenicity: In vitro, limited evidence of mutagenicity (mouse lymphoma forward mutation assay) In vivo, no information.

Carcinogenicity: No evidence of carcinogenic potential in limited animal studies in which methanol was given orally or applied to the skin. Reproduction: Methanol - reported to cause birth defects in rats exposed to very high levels of vacors (20,000 ppm).

#### Medical conditions aggravated by exposure:

Significant exposure to this chemical may adversely affect people with chronic disease of the central nervous system, skin, gastrointestinal tract and/ or eyes.

#### Emergency and first aid procedures

Ingestion (swallowing): Induce vomiting of conscious patient immediately by giving two glasses of water and pressing finger down throat. Contact a physician immediately.

Inhalation (breathing): Remove patient from contaminated area. If breathing has stopped, give artificial respiration, then oxygen if needed. Contact a physician immediately.

Skin contact: Remove contaminated clothing and wash contaminated skin with large amounts of water. If irritation persists, contact a physician.

Eye contact: Flush eyes with water for at least 15 minutes. Contact a physician immediately.

Note to physician: When plasma methanol concentrations are higher than 20 milligrams per deciliter, when ingested doses are greater than 30 milliliters, and when there is evidence of acidosis or visual abnormalities, a 10% solution of ethanol in 5% aqueous dextrose, administered intravenously, is a safe, effective antidote (Western Journal of Medicine, March 1985, p. 337).

## Spill or leak procedures

## \*Steps to be taken if material is released or spilled:

Eliminate ignition sources. Avoid eye or skin contact; see "Special protection information" section for resolrator information. Place leaking containers in wellventilated area with spill containment. If fire potential exists, blanket spill with alcohol-type aqueous film-forming foam or use water spray to discerse vapors. Contain spill to facilitate clean-up. Clean-up methods may include absorbent materials, vacuum truck, etc. Avoid runoff into storm sewers and ditches which lead to natural waterways. Call the National Response Center (800 424 8802) if the quantity spilled is equal to or greater than the reportable quantity (5000 lb/day) under CERCLA "Superfund."

#### \*Waste disposal method:

All notification, clean-up and disposal should be carried out in accordance with federal, state and local regulations. Preferred methods of waste disposal are incineration or biological treatment in federal/state approved facility.

\*Hazardous waste (40 CFR 261): Yes; hazardous waste codes U154. D001.

## Special protection information

## \*Respiratory protection:

Based on contamination level and working limits of the respirator, use a respirator approved by NIOSH/MSHA (the following are the minimum recommended equipment).

For methanol concentrations of: ≥200 ppm and ≤2000 ppm - Air-purifying respirator with full facepiece and organic vapor cartridge(s) or airpurifying full facepiece respirator with an organic vapor canister or a full facepiece powered air-purifying respirator fitted with organic vapor cartridge(s). >2000 ppm and <25,000 ppm - Positivepressure full facepiece supplied-air respirator, or continuous-flow full facepiece supplied-air respirator.

≥25,000 ppm or unknown concentration (such as in emergencies) - Positive-pressure self contained breathing apparatus with till facepiece. Positive-pressure suppliedair respirator with full facepiece equipped with an auxiliary positivepressure self-contained breathing apparatus escape system.

#### Ventilation

Local exhaust: Recommended when appropriate to control employee

Mechanical (general): Not recommended as the sole means of controlling employee exposure.

#### Protective gloves:

Necprene or rubber.

#### Eye protection:

Chemical safety goggles.

\* Additional protective equipment:

For operations where spills or splashing can occur, use chemical protective clothing, including gloves and boots. A safety shower and eye bath should be readily available.

## Special precautions

#### \* Precautions to be taken in handling and storing:

Store in a cool, well-ventilated area. Do not expose to temperatures above 49°C (120°F). Keep away from heat. sparks and flame. Keep containers closed when not in use. Always open containers slowly to allow any excess pressure to vent. Use only DOT-approved containers. Use spark-resistant tools. Do not load into compartments adjacent to neated cargo. When transferring follow proper grounding procedures. Use with adequate ventilation. Provide emergency exhaust. Avoid breathing vapor. Avoid contact with eyes, skin and clothing. Wash thoroughly with soap and water after handling. Decontaminate soiled clothing thoroughly before re-use. Discard contaminated leather clothing.

## Glossary for Components information table

ACGIH - American Conference of Governmental

Industrial Hygienists
Chemical Abstracts Service

CAS — Chemical Abstracts Service
Ceiling — The concentration that should not be
exceeded during any part of the working day.
IDLH — Immediately Dangerous to Life or Health
OSHA — Occupational Safety and Health Administration

PEL - Permissible exposure limit
SARA - Superfund Amendments and Reauthonzation Act
Skin - Potential contribution to overall exposure possible via skin

absorption absorption.

STEL - Short-term exposure limit; 15-min, time-weighted average

TLV - Threshold limit value

TWA -8-nour time-weighted average

### Chemical Group

Hoechst Celanese Corporation

\*PO. Box 819005/Dallas, Texas 75381-9005

\*Information phone: 214 277 4000

Emergency phone: 800 424 9300 (CHEMTREC)

<sup>\*</sup> New or revised information; previous version dated December 31, 1990.

<sup>\*</sup>The supplier makes no warranty of any kind, express or implied, concerning the use of this product either singly or in combination with other substances. Effects can be aggravated by other materials. This product may aggravate or add to the effects of other materials. This product may be released from gas, liquid or solid materials made directly or indirectly from it. User assurial risks incident to its use. User must communicate to its employees and customers, including consumers of its products, all warmings that relate to the potential exposure of each of those groups to the material. To the best of our knowledge, the information contained herein is accurate. However, nether Hoecist Celanese Corporation nor any of its subsidiaries or affiliates assuring whatsoever for the accuracy or completeness of the information contained herein. The Hoechst name and logo are registered trademarks of Hoechst AG.

12-13-98

## MATERIAL SAFETY DATA SHEET

MSDS CODE NO. 5881-83 ORIGINAL ISSUE DATE: 8/85 REVISED: 2/94

(IDENIER PAIRS)

24 HOUR EMERGENCY TELEPHONE NUMBER CHEMTREC 800-424-9300

PRODUCT NAME: Anhydrous Ammonia

COMMON NAME: Ammonia

SHIPPING NAME: Ammonia, Annydrous, Liquefied, 2.2

UN 1005, RQ, Inhalation Hazard.

MANUFACTURER AND/OR DISTRIBUTOR:

LaRoche Industries Inc.

1100 Johnson Ferry Road N.E.

Atlanta, GA 30342

(404) 851-0300; (404) 491-7987 after hours

Prepared By: R. C. Cannon

MATERIAL	FORMULA	CAS. NO.:	%\	NT.	EXPOSU	JRE LIMITS
					OSHA-PEL	ACGIH
			C-Grade	P-Grade		TLV STEL
Ammonia	NH <sub>3</sub>	7664-41-7	9 <b>9</b> .5	99.995	50 ppm	25 ppm 35 ppr
Water	H₂O	7732-18-5	0.4	33 ppm	None Established	None Established
Oil			0.1	2 ppm	5mg/M <sup>3</sup>	5mg/M <sup>3</sup> —

SPECIFIC GRAVITY (H <sub>2</sub> O=1) 0.62 @ 60°F
PERCENT VOLATILE BY VOLUME (%) 100
pH Approx. 11.6 for 1 N Soln. in water
SOLUBILITY IN WATER 33% (Wt.) @ 68°F

APPEARANCE AND ODOR: Colorless gas or liquid with extremely pungent odor.

IV. FIRE AN	B EVEL ACIA	
		-1843718 -11
		91-3-71-3-7-3

FLASH POINT (method used) Not Applicable

FLAMMABLE LIMITS 16-25% in air

NFPA

HEALTH

1 (Slight)

REACTIVITY

0 (Least)

EXTINGUISHING MEDIA: With a source of ignition, ammonia will burn in the range of 16-25% in air. Use water fog or spray to extinguish flames.

SPECIAL FIRE FIGHTING PROCEDURES: Stop flow of gas; move containers from fire zone if possible. Stay clear of tank heads. Use water to cool fire-exposed containers and protect personnel. Use water spray to control vapors. Personnel must be equipped with appropriate protective clothing and respiratory equipment. Do not put water on liquid ammonia.

## V. REACTIVITY DATA

STABILITY	Unstable		CONDITIONS TO AVOID: Heating above ambient temperatures causes the vapor
SIABILITY	Stable	X	pressure of ammonia to increase rapidly.

INCOMPATIBILITY: Ammonia can react violently with strong acids. Under certain conditions, ammonia reacts with bromine, chlorine, fluorine or iodine to form compounds which explode spontaneously. Reactions of ammonia with gold, silver or mercury to form explosive fulminate-like compounds have been reported.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen on heating to over 850°F. The decomposition temperature may be lowered to 575°F by contact with certain metals such as nickel.

HAZARDOUS	May Occur		CONDITIONS TO AVOID: Not Applicable.
POLYMERIZATION	Will Not Occur	Х	CONDITIONS TO AVOID. Not Applicable.

NOTE: Anhydrous Ammonia is subject to the reporting requirements of SARA (1986, section 313 of Title III) and 40 CFR Part 372.

## WASPITTORITEAKTRIBIL DATES

RANSPORTATION EMERGENCIES Call CHEMTREC 800-424-9300

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED: Stop leak if feasible. Avoid breathing .mmonia. Evacuate personnel not equipped with protective clothing and equipment. Use copious amounts of water spray or fog to absorb ammonia vapor. DO NOT put water on liquid ammonia. Contain run-off to prevent ammonia from entering a stream, lake, sewer or ditch.

Release of 100 lbs. or more of ammonia within 24 hours must be reported to the National Response Center at 800-424-8802, as well as appropriate local and state agencies. Immediate (within minutes) reporting is required.

WASTE DISPOSAL METHOD:

Recover ammonia if feasible. Otherwise, let ammonia evaporate if appropriate. Only personnel experienced in ammonia spills should Not Applicable

add water to liquid ammonia. Dispose of diluted ammonia as a fertilizer or in an industrial process.

For hazardous waste regulations, call the RCRA Hotline at 800-424-9346.

## HEAD HAZARO DAVA

EFFECTS OF OVEREXPOSURE:

MAJOR EXPOSURE HAZARD

IDLH Level=500 ppm

X INHALATION X SKIN CONTACT X EYE CONTACT

INGESTION

Ammonia is a strong alkali and readily damages all body tissues. Ammonia is not a cumulative metabolic poison.

nor is it a listed carcinogen by IARC, NPT or OSHA, Inhalation: Depending on exposure concentration and duration, effects can vary from none or only mild irritation, to obstruction of breathing from laryngeal and bronchial spasm, to edema and severe damage of the mucous membranes of the respiratory tract with possible fatal results. Latent edema and residual reduction in pulmonary function may occur. Skin Contact: Prolonged contact with high concentrations can cause painful tissue damage, frostbite and serious chemical burns. Eye Contact: Exposure to liquid or high concentrations of vapor can cause painful, instant and possibly irreversible damage to tissues such as the conjunctiva, cornea and lens. Glaucoma and opacities may occur. Ingestion: Tissue damage, chemical burns, nausea and vomiting can occur. Ammonia is a gas under normal atmospheric conditions and ingestion is unlikely.

## **EMERGENCY AND FIRST AID PROCEDURES:**

Eye Contact: Flush with large amount of water for at least 15 minutes then immediately seek medical aid. Inhalation: Remove from exposure. If breathing has stopped or is difficult, administer artificial respiration or oxygen as needed. Seek immediate medical aid. Skin Contact: Immediately flush with large quantities of water for at least 15 minutes while removing clothing. Clothing frozen to the skin should be thawed with water before removal. Seek immediate medical aid. Ingestion: Do not induce vomiting. Have the victim drink large quantities of water if conscious. Immediately seek medical aid. Never give anything by mouth to an unconscious person.

## VIII. SPECIAL PROTECTION INFORMATION

Respiratory protection approved by NIOSH/MSHA for ammonia must be used when exposure limits are exceeded. Whether a chemical cartridge respirator or a self-contained breathing apparatus is sufficient for effective respiratory protection depends on the type and magnitude of exposure.

Rubber gloves and rubber or other types of approved protective clothing should be used to prevent skin contact. A face shield should be used for increased protection from contact with liquid.

Chemcial splash goggles, approved for use with ammonia, must be worn to prevent eye contact with liquid or vapor. A face shield should be used for increased protection from contact with liquid.

### VENTILATION AND ABSORPTION:

Local positive pressure and/or exhaust ventilation should be used to reduce vapor concentrations in confined spaces. Ammonia vapor, being lighter than air, can be expected to dissipate to the upper atmosphere. Ammonia concentrations may also be reduced by the use of an appropriate absorbent or reactant material.

## OTHER PROTECTIVE EQUIPMENT AND MEASURES:

Emergency eyewash stations and deluge showers must be available in the work area. Post a list of emergency response contacts and telephone numbers.

## IX. SPECIAL PRECAUTIONS

## PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Refer to the ANSI K61.1 standard for storage and handling information. Protect containers from physical damage and temperatures exceeding 120° F. Use only approved storage systems. Zinc, copper, silver, cadmium and their alloys must not be used in ammonia systems since they can be rapidly corroded by it. Avoid hydrostatic pressure, which can cause equipment rupture, by adhering to proper filling procedures and the use of hydrostatic pressure relief valves where appropriate.

## OTHER COMMENTS:

Contact lenses must not be worn when working with ammonia.

This information is taken from sources or based upon data believed to be reliable; however, LaRoche Industries Inc. makes no warranty as to the absolute correctness or sufficiency of any of the foregoing or that additional or other measures may not be required under particular conditions.